SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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Version: 3

Fast Fix S 20g

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1. Product identifier

Trade name/designation:

Fast Fix S 20g

Article No.:
T504600

UFI:
RGWY-X03H-E60U-3CAS

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:
Adhesive

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH
Hartleitnerstraße 3
4653 Eberstalzell
Austria
Telephone: +43 (0) 7241 213 79
E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07
Exclamation mark

Signal word: Warning

Hazard components for labelling:
ethyl 2-cyanoacrylate

Hazard statements for health hazards	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Supplemental hazard information	
EUH202	Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

Precautionary statements Prevention	
P261	Avoid breathing vapours.
P280	Wear protective gloves/eye protection.

Precautionary statements Response	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

Other adverse effects:
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

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3.2. Mixtures

Description:
Adhesive

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 7085-85-0 EC No.: 230-391-5 Index No.: 607-236-00-9 REACH No.: 01-2119527766-29	**ethyl 2-cyanoacrylate** Eye Irrit. 2 (H319), STOT SE 3 (H335), Skin Irrit. 2 (H315) Warning **Specific concentration limit (SCL)** STOT SE 3; H335: C ≥ 10% **Acute Toxicity Estimate** ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg	> 50 – ≤ 100 Vol-%
CAS No.: 123-31-9 EC No.: 204-617-8 Index No.: 604-005-00-4	**hydroquinone** Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Carc. 2 (H351), Eye Dam. 1 (H318), Muta. 2 (H341), Skin Sens. 1 (H317) Danger M-factor (acute): 10 **Acute Toxicity Estimate** ATE (oral) 375 mg/kg ATE (dermal) > 2,000 mg/kg	≥ 0.025 – < 0.1 Vol-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
Immediately remove any contaminated clothing, shoes or stockings.

Following inhalation:
Fresh air supply, respiratory care if necessary, warmth. Consult a doctor if symptoms persist.
If unconscious, position and transport in stable lateral position.

In case of skin contact:
After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if symptoms persist.

After eye contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:
Rinse out mouth immediately and drink plenty of water.
Do NOT induce vomiting. Seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
Carbon dioxide (CO2), Extinguishing powder, Water spray jet.
Fight larger fires with water spray or alcohol-resistant foam.

Unsuitable extinguishing media:
Water in full jet

5.2. Special hazards arising from the substance or mixture
Formation of toxic gases when heated or in case of fire.

Hazardous combustion products:
Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)
Risk of formation of toxic pyrolysis products.
Under certain fire conditions, traces of other toxic substances cannot be excluded.

5.3. Advice for firefighters
Special protective equipment for firefighters:
Wear self-contained breathing apparatus.
Do not inhale explosion and combustion gases.

5.4. Additional information
Cool endangered containers with water spray. Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Provide adequate ventilation.
Use respiratory protection when exposed to vapours/dust/aerosol.
Avoid contact with eyes and skin.

6.1.2. For emergency responders
No data available

6.2. Environmental precautions
In case of spillage into water or sewage system, inform the competent authorities.
Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up
For cleaning up:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information:
Provide adequate ventilation. Dispose of the ingested material in accordance with the regulations.

6.4. Reference to other sections
See section 7 for further information on safe handling.
For further information on personal protective equipment: see section 8.
For further information on disposal: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Ensure good ventilation/extraction at the workplace.
Ensure good room ventilation also in the floor area (vapours are heavier than air).

Fire prevent measures:
Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:
Keep/Store only in original container.

Hints on storage assembly:
Not required.

Storage class (TRGS 510, Germany): 10 - 13 – Other combustible and non-combustible substances

Further information on storage conditions:
Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Recommendation:
No further relevant information available.

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	**ethyl 2-cyanoacrylate** CAS No.: 7085-85-0 EC No.: 230-391-5	① 2 ppm (9 mg/m³)
MAK (AT)	**hydroquinone** CAS No.: 123-31-9 EC No.: 204-617-8	① 2 mg/m³ ⑤ (einatembare Fraktion) III B, S
MAK (AT)	**hydroquinone** CAS No.: 123-31-9 EC No.: 204-617-8	② 4 mg/m³ ⑤ (einatembare Fraktion max. 8x5 min./Schicht, Momentanwert) III B, S

8.1.2. Biological limit values
No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5	9.25 mg/m³	① DNEL Consumer ② Long-term – inhalation, local effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	1.74 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	7 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.5 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	1 mg/m³	① DNEL worker ② Long-term – inhalation, local effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	128 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	64 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

Substance name	PNEC Value	① PNEC type
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.114 mg/L	① PNEC aquatic, freshwater
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.0114 mg/L	① PNEC aquatic, marine water
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.71 mg/L	① PNEC sewage treatment plant
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.00098 mg/kg	① PNEC sediment, freshwater
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.000097 mg/kg	① PNEC sediment, marine water
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8	0.000129 mg/kg	① PNEC soil

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment

Eye/face protection:

Safety goggles

Skin protection:
Hand protection:
Wear protective gloves. (EN 374)
Check protective gloves for proper condition before each use.
The glove material must be impermeable and resistant to the product / substance / preparation.
Selection of the glove material considering the breakthrough times, permeation rates and degradation.
Glove material:
Breakthrough time: 60 min.
Butyl, Nr. 0898

Breakthrough time: 30 min.
Chloroprene Nitrile II, Nr. 0717
Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836
Viton, Nr. 0890
Butyl II, Nr. 0897

This recommendation is based exclusively on chemical compatibility and testing according to EN 374 under laboratory conditions. Depending on the application, different requirements may arise. Therefore, the recommendations of the protective glove supplier must also be taken into account. The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.
Gloves made of the following materials are not suitable: Fabric gloves

Respiratory protection:
In case of inadequate ventilation wear respiratory protection.
Filter B

Other protection measures:
General protective and hygienic measures:
The usual precautions when handling chemicals must be observed.
Keep away from food, drink and animal feed.
Remove contaminated, saturated clothing immediately.
Wash hands before breaks and after work.
Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls
No data available

8.3. Additional information
No further relevant information available.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance
Physical state: Liquid
Colour: colourless
Odour: characteristic
flammability: No data available
Odour threshold: not determined

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	> 35 °C		
Flash point	> 80 °C		
Evaporation rate	*No data available*		

Parameter	Value	at °C	① Method ② Remark
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	1.05 g/cm³	20 °C	① DIN 51757
Bulk density	*not applicable*		
Water solubility	Immiscible		
Dynamic viscosity	20 – 40 mPa* s	20 °C	
Kinematic viscosity	*No data available*		
Self ignition temperature	*not applicable*		② The product is not self-igniting.

9.2. Other information
The product is not explosive.

SECTION 10: Stability and reactivity

10.1. Reactivity
No further relevant information available.

10.2. Chemical stability
Thermal decomposition/Conditions to avoid:
Protect from heat and direct sunlight.

10.3. Possibility of hazardous reactions
Polymerisation under heat development.
Reacts with alcohols, amines, aqueous acids and alkalis.

10.4. Conditions to avoid
No further relevant information available.

10.5. Incompatible materials
No further relevant information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5
LD_{50} oral: >5,000 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rabbit) OECD 402
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
LD_{50} oral: 375 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rabbit) OECD 402

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Causes skin irritation.

Serious eye damage/irritation:
Causes serious eye irritation.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
May cause respiratory irritation.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
LC_{50}: 0.638 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC_{50}: 0.061 mg/L 2 d (crustaceans, Daphnia magna)
EC_{50}: 0.335 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
EC_{50}: 0.162 – 0.29 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 0.0057 mg/L 21 d (crustaceans, Daphnia magna) OECD 211

Aquatic toxicity:
No further relevant information available.

12.2. Persistence and degradability

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Biodegradation: Yes, rapidly

Additional information:
No further relevant information available.

12.3. Bioaccumulative potential

hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Bioconcentration factor (BCF): 40

Accumulation / Evaluation:
No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

ethyl 2-cyanoacrylate CAS No.: 7085-85-0 EC No.: 230-391-5
Results of PBT and vPvB assessment: —
hydroquinone CAS No.: 123-31-9 EC No.: 204-617-8
Results of PBT and vPvB assessment: —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties
None of the ingredients are included.

12.7. Other adverse effects
Drinking water hazard even when small quantities leak into the subsoil.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options
Appropriate disposal / Package:
Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	UN 3334
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	AVIATION REGULATED LIQUID, N.O.S. (heptane)
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	 9
14.4. Packing group			
not relevant	not relevant	not relevant	III
14.5. Environmental hazards			
not relevant	not relevant	not relevant	No
14.6. Special precautions for user			
not relevant	not relevant	not relevant	**Special Provisions:** A27 **Limited quantity (LQ):** Y964 **Excepted Quantities (EQ):** E1 **Remark:** Attention: Gases

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3
Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.
Regulation (EU) 2019/1148
Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.
Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.
Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

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16.1. Indication of changes

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

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16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development

OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
ZNS	central nervous system

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation *(Skin Irrit. 2)*	H315: Causes skin irritation.	
Serious eye damage/eye irritation *(Eye Irrit. 2)*	H319: Causes serious eye irritation.	
STOT-single exposure *(STOT SE 3)*	H335: May cause respiratory irritation.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

16.6. Training advice

No data available

16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

* Data changed compared with the previous version.